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DIALOG(R)File 351:Derwent WPI
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007519666 **Image available**

WPI Acc No: 1988-153599/ 198822

Solar power unit - has thermal drive made as cylinder with working cavity filled with volumetrically expanding material when heated

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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SU 1348616	A	19871030	SU 4051452	A	19860311	198822 B
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Priority Applications (No Type Date): SU 4051452 A 19860311

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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SU 1348616	A		3		
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Abstract (Basic): SU 1348616 A

The unit has an object oriented on to the sun, fitted on a shaft with the possibility of rotation, radiation receiving thermo-drive with moving screen, connected by a kinematic mechanism to the object. The efficiency is increased by reducing the object disorientation during short cloudy periods since the thermo-drive is made as a cylinder with working cavity filled with volumetrically expanding material when it is heated. A piston with a sprung shaft is placed in the cylinder. The object shaft is hollow and is filled with thermoaccumulation medium and its cavity is connected to working cavity by a valve with drive lever. The screen is V-shaped. The kinematic mechanism is made as a curved element with pins and interacting catches and two sprung wedges placed in mirror image about curved element. The object centre of gravity is displaced w.r.t. its shaft. USE - Solar power plants for orientation on to the sun. Bul.40/30.10.87.

(3pp Dwg.No.2/4)

Derwent Class: Q74; X15

International Patent Class (Additional): F24J-002/38